



Sustainable
Construction
in Rural and Fragile Areas
for Energy efficiency

Awareness raising actions - Province of Savona (Italy)

In the framework of the SCORE Project, the main communication, information and education initiatives adopted by the Province of Savona and other bodies aimed at spreading and promoting renewable energy sources and energy saving (funding, tax breaks, licensing and normative process, educational trainings, events, fairs of the sector, project in the environmental fields of the Province of Savona) are indicated as follows:

Events, initiatives and projects:

2010 -Conference “Energy Policies and Sustainable Development in territorial systems”, coordinated by the Ministry of the Environment and the National Institute of City Planning. This conference, organized within the festival “Urbanpromo”, aims at relaunching urban and local marketing policies in order to implement EU policies to innovate the governance of the territory and the town planning practices towards a better environmental and energy sustainability, which should become the distinctive and qualifying element as well as the engine/reason for change. “Urbanpromo” is aimed at proposing experiments, topics and particularly relevant instruments in Italy as well as sharing experiences collected abroad. Presentation of the “Score” Project by the Province of Savona.

2011 – Legambiente“Eternit Free” Campaign in Liguria Region

The Councillorship of the Environment and Sustainable Development of Liguria Region, together with “Altra Economia” and “Stili di Vita Consapevoli”, joined the raising-awareness campaign “Eternit Free” to replace asbestos on the roofs with photovoltaic panels. The objectives are manifold: reducing CO2 emissions to safeguard health, fostering innovation and creating an alternative economy. May 2011 “European Solar Days” has been a communication and information initiative on solar energy based on a stand, seminars, meetings with experts, small fairs dedicated to solar energy, technical lessons for architect designs and installers, open labs in schools, guided tours of solar plants, public building with solar energy systems as well as industries in the area.

2011 – Conference on thermal and acoustic designing in Loano

“New laws, new technical norms, what technology?” organized by ANIT (Italian National Association for Thermal and Acoustic Insulation). New design approaches for the buildings of the future ranging from the European norms of the sector to the more technical aspects such as biocompatible technology for acoustic insulation and energy saving, influence of adhesive equipment in exterior insulation and finishing systems, construction methods for opaque enclosure to have almost zero energy building.

2011 –New mini-wind farm at the Savona Port – Two 20 Kw wind generators, one of which with vertical axis, at the Port of Savona.

After the installation of the first 6 kW mini-wind farm four years ago, the new turbines will be used to study the functioning of it in terms of performance and costs. The turbines will

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located in the same point (with an average wind of 5,5 m/sec over the year) and monitored by using a streaming video system. Parameters will be then compared to understand how the two types of plants work, starting from some awaited predictions, as the highest production (40 MWh/year) given by the horizontal axis rather than the vertical axis (25 MWh/year), taking into account that the first type requires a yearly maintenance while the second type needs to be maintained every five years.

2011 –Photovoltaic system at the school “Ferraris-Pancaldo” in Savona

The 32,9 kWp photovoltaic system at the Institute “Ferraris-Pancaldo” in Savona has been completed. Installed on the façade of the sports hall, it will allow the school to spare energy and pursue a didactic goal: let young people approach this kind of technology during an educational period that could stimulate them and make them become technicians in the field of renewable energies.

2011 –Electric vehicles of the Province of Savona

Developed by IPS (Insediamenti Produttivi Savonesi), it is made up of two photovoltaic systems of around 2,5 kWp each and nine electric vehicles: two cars, five mopeds and two bicycles. In particular, the cars of the model “Tazzari Zero” have an autonomy of 140 km (the battery may be recharged in nine hours) and can reach the highest speed of 100 Km/h (and are equipped with an electronic braking system to recover energy). Mopeds have an autonomy of 60 Km (batteries may be recharged in around three hours) and have a maximum speed of 45 km/h. The estimate energy produced per year by the photovoltaic systems installed around the city is around 5.000 kWh/year with around 45.000 km/year made at zero cost thanks to electric vehicles. At the same time, in terms of environmental impacts, the contribution to improve air quality is significant: 6.750 kg/year will be the quantity of CO2 emissions spared thanks to electric vehicles. SOURCE: Eng. Pietro Pera – IPS.

2012 – A wind farm in Naso di Gatto was opened

Enercon E-82 are the aerogenerators chosen by the company Fera, with a nominal speed of 2,3 MW for a total of 9,2 MW installed. According to the estimates, Naso di Gatto will produce 25.000 MWh electricity every year to meet the electricity demand of 8.000 families every year. Benefits for the environment are consistent: 10.700 tons per years as for spared CO2 emissions and 4.500 TEP hydrocarbons spared every year (which extended to the life of the park, is equivalent to four supertankers Haven avoided). Naso di gatto is located in a forest that represents the typical landscape in the inland parts of Liguria. The project has been developed aimed at best integrating the plant in the environment, in the landscape and in the territory, by minimizing any possible impact.

2012 -Loano: ecoinnovative stations for high-tech recharging

The Councillorship for Environment, Government Property and Public Parks of the Municipality of Loano made the installation of two “Ecoprivate Stations” possible. They are equipped with appliances to recharge mobile phones, netbooks, ipad, iphone, digital cameras. These stations, powered by a solar panel, will be at the disposal of residents and tourists for free. There will also be a monitor in which information on events and initiatives promoted by the Municipality will be provided. In this installation, there will also be an internet station with a WiFi connection provided for free 24 hours a day prior to registration.

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2012 –Municipality of Spotorno: energy saving interventions

All over the streets of the city center in Spotorno (SV), 135 old and obsolete streetlamps were replaced with high pressure sodium lamps. The operation will allow an energy saving of about 30%, that with the same light intensity, will avoid the emission of CO2 equal to about 15 tons per year. In this phase, further 6 streetlamps will be replaced with new and more efficient LED lamps. These interventions come after the recent methane conversion of all central heating plants of all public buildings of the Municipality. But that's not all: further adjustments and energy saving efforts are foreseen in the first quarter 2012 with the intention to introduce the door-to-door collection of biodegradable waste aimed at increasing differentiated collection of at least 5-10% within the current year.

2012 –Survey on the business working in the sector of renewable energies Liguria Ricerche spa, company of the Filse Group, was given the task by Liguria Region – Department for Economic Development – to carry out a survey aimed at improving knowledge of the renewable energy businesses in Liguria to then collect data in the field of development, production, installation and maintenance that identify costs/benefits and turnover for each renewable energy technology. Acquired data will be processed to provide Liguria Region with useful information to program adequate support instruments and to foster investments of businesses operating in the various sectors linked to renewable energies.

2012 -Liguria: new regional law on energy consumptions in the building sector – New norms in Liguria as for energy conservation in buildings. The Region has modified the Regional Law LR 22/2007 by approving the Regional Law 23/2012. In particular, with respect to the reduction of consumption of energy, exceptions are made for buildings of historic and artistic interest bound and buildings used as places of worship and for religious activities. As for the minimum requirements in terms of energy performance (that will be reviewed every five years), the law puts them off to future regulations. Moreover, a certificate will need to be issued depending on the types of building in case of sale or rental. The technician in charge of issuing the energy performance certificate will have to pay a contribution for each certificate issued as a participation to the Regional expenses made in order to exercise its functions in the sector. This law decides that buildings of public authorities and buildings normally open to public with an useful area of more than 500 square meters have to be equipped with the certificate within 31 December 2013. As foreseen by the EU directive, this 500 square meter threshold will be lowered to 250 square meters from 9 July 2015. Text published on BUR

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